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L13: Entry 705 of 735

File: DWPI

Feb 22, 2001

DERWENT-ACC-NO: 2001-227550

DERWENT-WEEK: 200523

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TITLE: Xanthohumol containing hop extract, useful as additive for beer and non-alcoholic drinks and for treatment of cancers

INVENTOR: KRIEGL E

PATENT-ASSIGNEE:

ASSIGNEE

CODE

PLANTEKTRANT GMBH & CO KG

PLANN

PRIORITY-DATA: 1999DE-1039350 (August 19, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
<input type="checkbox"/> DE 19939350 A1	February 22, 2001	DE
<input type="checkbox"/> DE 19939350 B4	April 7, 2005	DE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19939350A1	August 19, 1999	1999DE-1039350	
DE 19939350B4	August 19, 1999	1999DE-1039350	

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	CL2 C 3/08	20060101

ABSTRACTED-PUB-NO: DE 19939350 A1

BASIC-ABSTRACT:

NOVELTY - A hop extract with a high xanthohumol content, is new.

DESCRIPTION - An INDEPENDENT CLAIM is also included for the preparation of the novel hop extract.

None given.

USE - The extract can be added to beer, fruit-based drinks and tea-like drinks, e.g. iced tea. It is particularly added to cloudy beers and non-alcoholic drinks based on naturally cloudy juices and pulps. It may also be used in the treatment of cancers.

ADVANTAGE - The hop extract has a higher xanthohumol content than prior art hop extracts and is easy to process.

ABSTRACTED-PUB-NO: DE 19939350 A1
EQUIVALENT-ABSTRACTS:

PHARMACEUTICALS

Preferred Extract: The extract contains 2-20, preferably 5-15 %, by weight xanthohumol, and is preferably in the form of a paste. The extract also contains a starch-based carrier, especially maltodextrin. The maximum carrier content is 60 % based on total dry extract and carrier.

Preparation: The extract is prepared by extraction of a hop product with an organic solvent or alkaline water.

Preferred Method: The hop product is subjected to a pre-extraction with water. The organic solvent is aqueous alcohol, preferably aqueous ethanol, especially with an alcohol:water weight ratio of 30:70 up to 80:20. Other solvents which can be used include esters, e.g. ethyl acetate, and ketones, e.g. acetone. When alkaline water is used for the extraction, it comprises water containing 0.05-10 % NaOH or KOH. The initially obtained extract is processed to a paste and this is then mixed with a starch-based carrier, especially a maltodextrin solution, and the mixture is spray-dried to a powder.

Dried hops (100 kg) are extracted with deionized water (2000 l) at 95 degrees C for 1 hour and the residual spent hop material is then extracted with aqueous ethanol (2000 l; 50 %, by weight EtOH) at 50 degrees C for 1 hour. The separated EtOH extract is vacuum concentrated at 70 degrees C to a paste (50-70 % dry content) containing 5-10 %, by weight, xanthohumol. The paste is mixed with maltodextrin and the mixture is spray-dried to a powder.

TITLE-TERMS: CONTAIN HOP EXTRACT USEFUL ADDITIVE BEER NON ALCOHOLIC DRINK TREAT CANCER

DERWENT-CLASS: B05 D13 D16

CPI-CODES: B04-A08; B04-A10; B11-B; B11-C09; D03-H01G; D05-E;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
M423 M431 M710 M720 M782 N161 P631 P633 Q233
Specific Compounds
RA00C5
Registry Numbers
200613

Chemical Indexing M1 *02*
Fragmentation Code
M423 M431 M710 M720 M782 N161 P631 P633 Q233
Specific Compounds

RA01JH
Registry Numbers
100049

Chemical Indexing M2 *03*

Fragmentation Code

G013 G018 G100 H4 H403 H443 H5 H541 H7 H722
H8 J5 J581 M1 M121 M135 M210 M211 M215 M232
M240 M272 M281 M312 M321 M332 M342 M372 M391 M414
M431 M510 M520 M532 M540 M710 M720 M782 N161 P631
P633 Q233

Specific Compounds

RA3CH8
Registry Numbers
156820

Chemical Indexing M6 *04*

Fragmentation Code

P631 P633 Q220 Q233 R021 R535

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: 2001-068093

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